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(54) MANUFACTURE OF PISTON

(57) Abstract:

PURPOSE: To reduce the cooling loss of a piston, by coupling the main body of a piston made of an aluminum alloy with a piston crown obtained by enclosing a ceramics material having a high heat resistance with a pulverized, heat-resisting alloy and sintering the same subsequently.

CONSTITUTION: A member 1 shaped in the form of a piston crown is molded by a pulverized, heat-resisting alloy in the manner of enclosing a sintered zirconia 2, and then the member 1 is sintered under prescribed conditions. A piston crown 21 thus obtained is coupled with the main body 23 of a piston made of an aluminum alloy. By thus manufacturing a piston, it is enabled to reduce the cooling loss of the piston.

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